Practice: 422 - Hedgerow Planting
Scenario: #2 - Wildlife machine plant

## **Scenario Description:**

This scenario is for machine planting of woody species. Typically installed in or at the edge of cropland or pasture this scenario is used to address the Inadequate Habitat for Fish and Wildlife resource concern. Specifically, the establishment of dense vegetation in a linear design can be used to provide for several habitat elements depending on the needs identified in the habitat assessment. This scenario can provide: habitat conectivity, food, and cover for wildlife depending on design and plant species selection. The 422 standard for wildlife criteria calls for a minimum of two species of native plants. Typical installation involves tillage to prepare the site for planting. 2 Trees and/or shrubs adapted for local climatic and edaphic conditions are typically plant at eight foot intervals (this will vary with species selection and density goals). A mix of 2 native grasses adapted to the local climatic and edaphic conditions will be drilled into the site at a rate that will achieve a minimum of 20 seeds per square foot. The species list in the component section of this scenario are strictly for deriving a cost. Plant species adapted to the local climatic and edaphic conditions that address the resource concern will be stated in the specification for the site. This scenario assumes approximate average width of 25 feet but may vary throughout. There is tremendous overlap between this practice and conservation practice 380 Windbreak/Shelterbelt establishment. The main difference is that conservation practice 380 is exclusively woody plants where practice 422 provides for the use of herbaceous materials. If a fence is needed to facilitate establishment use practice 382, Fence.

## **Before Situation:**

Habitat patches lack connectivity. Cover is inadequate to allow wildlife to exploit cropland food resources. Berries and mast are limited.

# **After Situation:**

Inadequate habitat for fish and wildlife is addressed for needs identified in the resource assessment. Habitat patches are connected by dense hedgerow vegetation. Food resources in crop fields are made availble by their proximity to hedgerow cover. Planting may include fruit and mast bearing species, improving food supply, depending on needs being addressed.

Scenario Feature Measure: Square foot of planting

Scenario Unit: Square Foot Scenario Typical Size: 20,000

Scenario Cost: \$857.60 Scenario Cost/Unit: \$0.04

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation				(4) ()		
Mechanical tree planter		Mechanical tree planter. Requires a pulling unit of either tractor or small dozer depending upon site conditions. Does not include labor.	Hour	\$6.60	2.5	\$16.50
Seeding Operation, No Till/Grass Drill		No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$20.39	0.33	\$6.73
Tillage, Primary		Includes heavy disking (offset) or chisel plow. Includes equipment, power unit and labor costs.	Acre	\$15.85	0.33	\$5.23
Labor						
Equipment Operators, Light		Includes: Skid Steer Loaders, Hydraulic Excavators <50 HP, Trenchers <12", Ag Equipment <150 HP, Pickup Trucks, Forklifts, Mulchers	Hour	\$20.40	3	\$61.20
General Labor		Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$18.41	25	\$460.25
Materials						
Two Species Mix, Warm Season, Native Perennial Grass		Native, warm season perennial grass. Includes material and shipping only.	Acre	\$94.57	0.33	\$31.21
Animal repellent, chemical		Chemical animal repellent to protect trees from animal damage. Includes materials and shipping only.	Gallon	\$33.30	0.33	\$10.99
Tree shelter, mesh tree tube, 24"		24" tall vexar or other open weave tubular tree shelter to protect from animal damage. Materials only.	Each	\$0.52	100	\$52.00
Tree, hardwood, seedling or transplant, bare root, 16-36"		Bare root hardwood trees 18-36" tall. Includes materials and shipping only.	Each	\$0.40	100	\$40.00

#### Mobilization

# Mobilization

Mobilization, small equipment	1138 Equipment <70 HP but can't be transported by a pick-up	Each	\$173.49	1	\$173.49
	truck or with typical weights between 3,500 to 14,000				
	pounds.				